



Comments to FCC Interim Report

Ericsson Regulatory Affairs December 14, 2000



Some key drivers in spectrum design

- Global roaming (mobility, universal applications, clarity)
- Economy of scale (price, quality, availability)
- End-user perception (terminal related, to guarantee success)



Some key elements with regard to the GRP

- "Initial Phase": 1710-1770 MHz paired with 2110-2170 MHz
- Frequency arrangements for all three Regions a Region 2 harmonization opportunity
- Neither limits nor favors IMT-2000 technology choices
- Step-by-step approach accommodating US timing
- Interim Report Options included in Plan

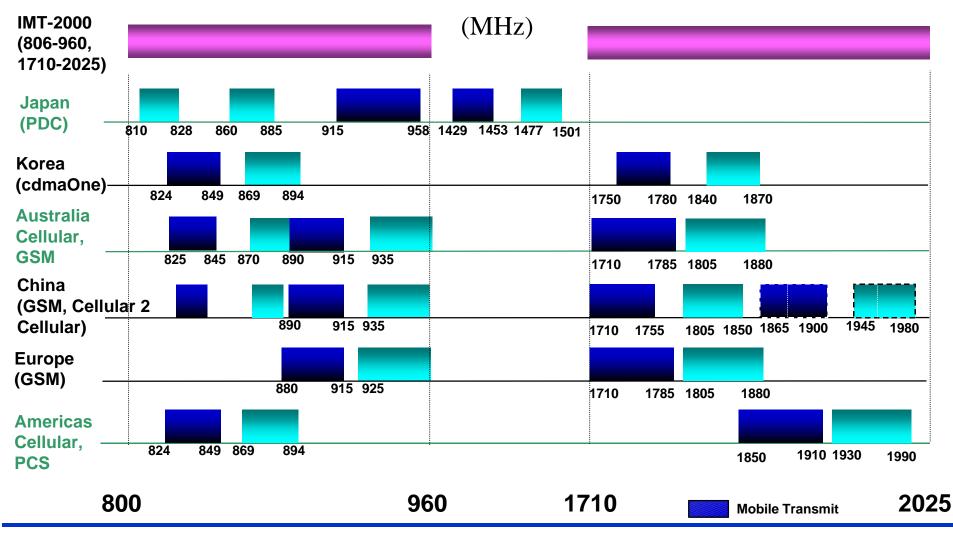


More key elements with regard to the GRP

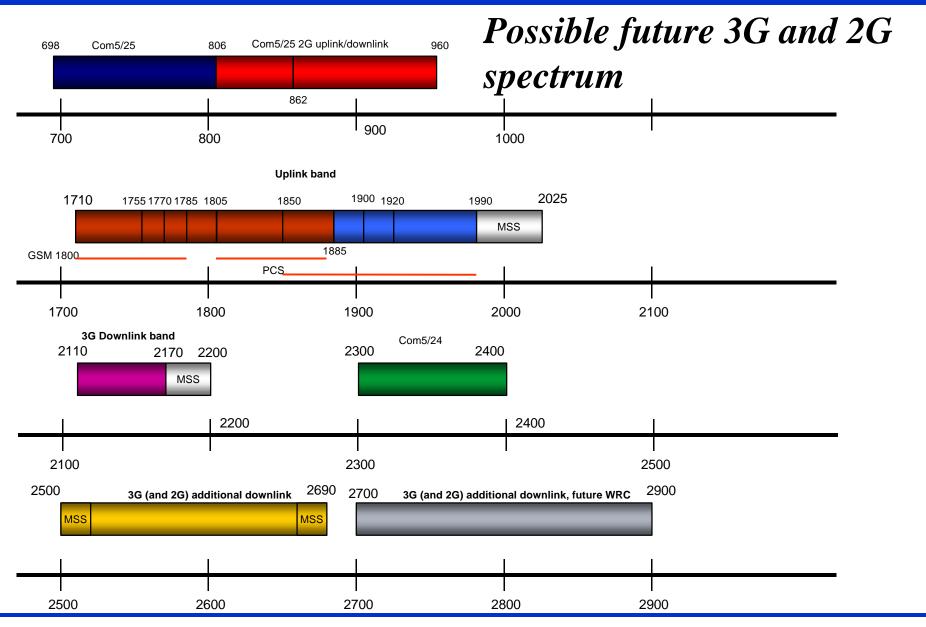
- The band 2500 2690 MHz as possible additional downlink
- Proposes additional bands for increased capacity and new entrants
- Flexibility in the implementation
- Facilitates expected traffic asymmetry
- Accommodates a possible transitional plan for PCS 1900 systems



Spectrum Allocations for Current Mobile systems

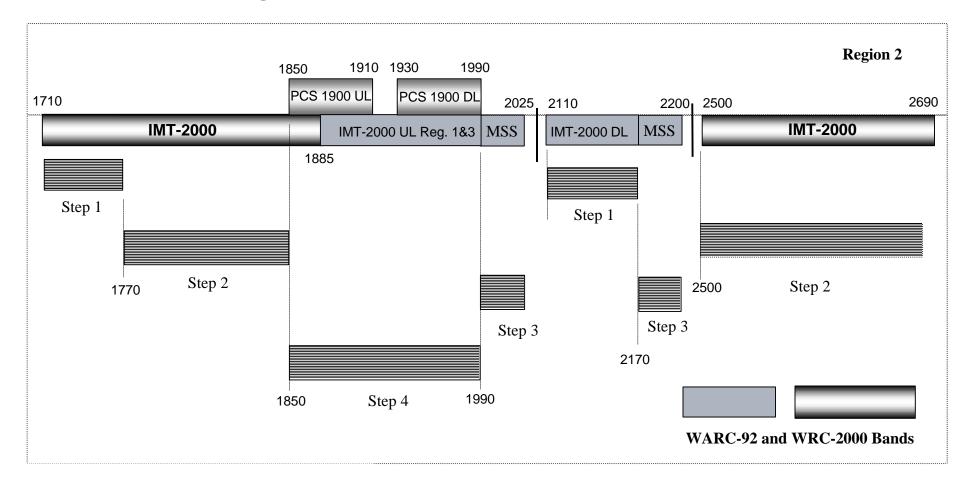








Global Roaming Plan (GRP)



Step 1: 1710-1770 MHz as UL and 2110-2170 MHz as DL

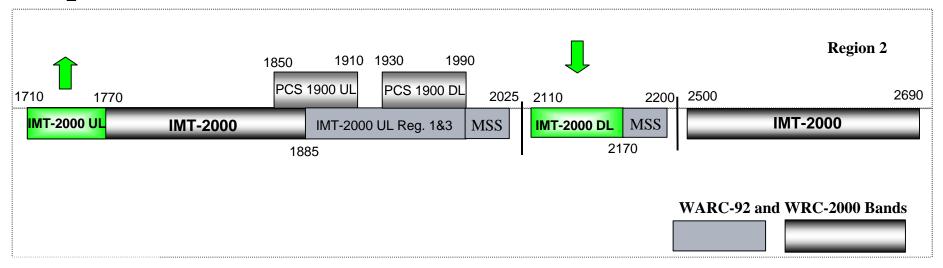
Step 2: 1770-1850 MHz as UL and 2500-2690 MHz as DL

Step 3: 1990-2025 MHz as UL and 2170-2200 MHz as DL

Step 4: 1850-1990 MHz as UL



Step 1. Initial Phase: 1710-1770 MHz paired with 2110-2170 MHz



 Common downlink enhances economy of scale, universal applications, facilitates new 3G entrants and global roaming with Region 1&3

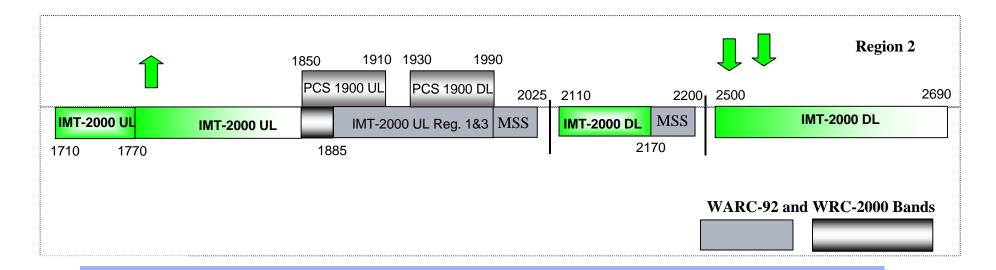


Step 2. Capacity and New Entrants

- Based on Market Requirements:
 - -2500 2690 MHz (or portions thereof) as downlink for new 3G entrants or additional downlink capacity for PCS 1900 system and existing Initial Phase operators.
 - -1770 1850 MHz (or portions thereof) as additional uplink for new 3G entrants or to increase the capacity of Initial Phase operators.



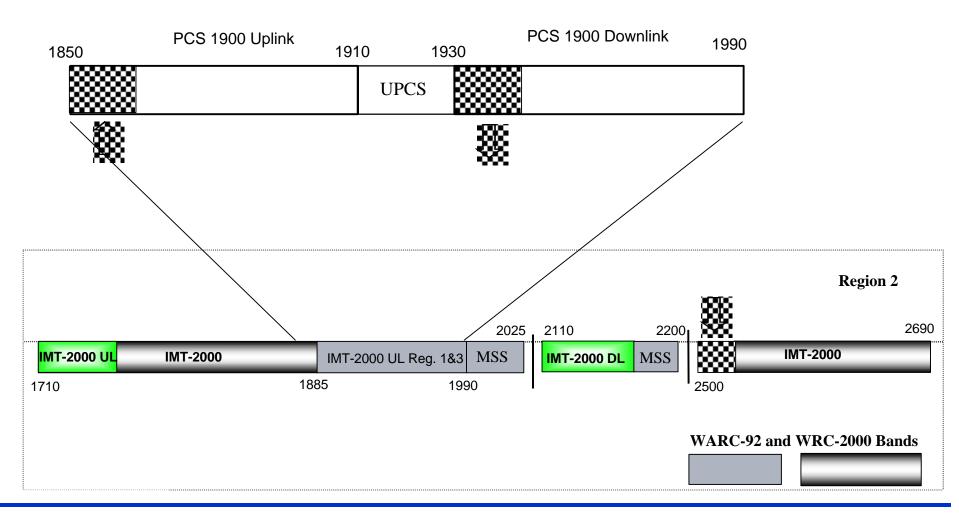
Step 2: Additional Capacity for Initial Phase and New Entrants



- Additional Capacity for Initial Phase operators in the downlink
- New 3G entrants can be added

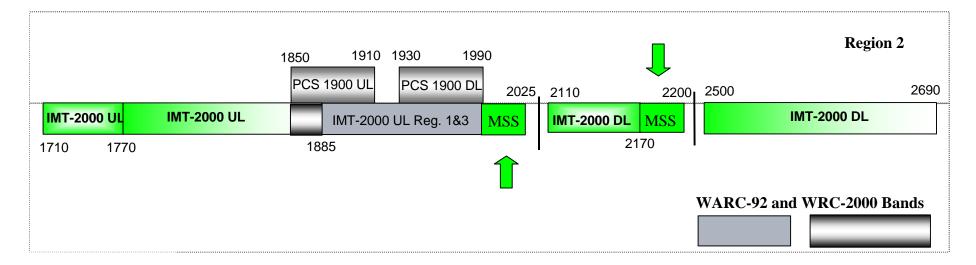


Step 2: Additional Downlink Capacity for PCS





Step 3. Consider MSS Allocations



 Based on Market demand, the MSS allocations can be considered for additional terrestrial spectrum for either capacity relief or new 3G entrants.



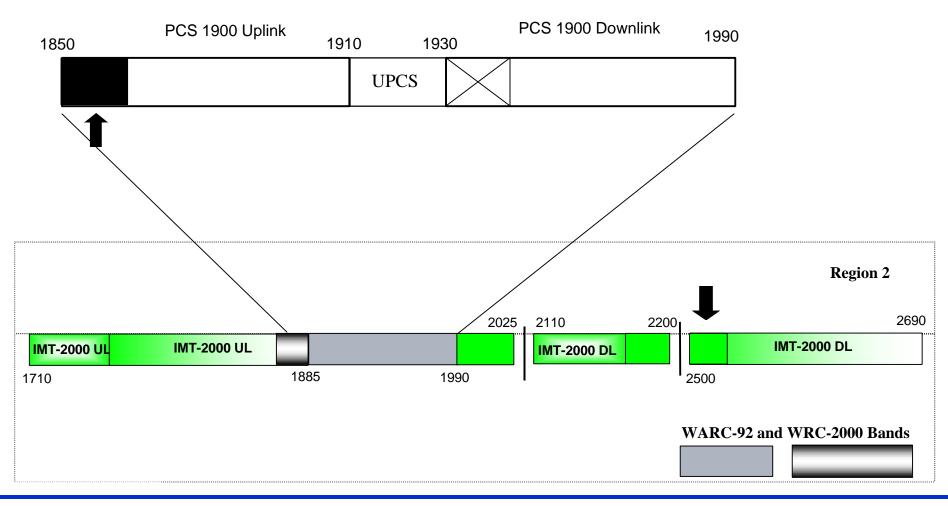
Step 4. Optional PCS Transition

- Existing PCS operators may consider transitioning to the GRP in the longer term* to:
 - Minimize the number of bands in the terminal equipment
 - Support new services

^{*} Some operators may continue to support multiband terminals in 800 MHz.

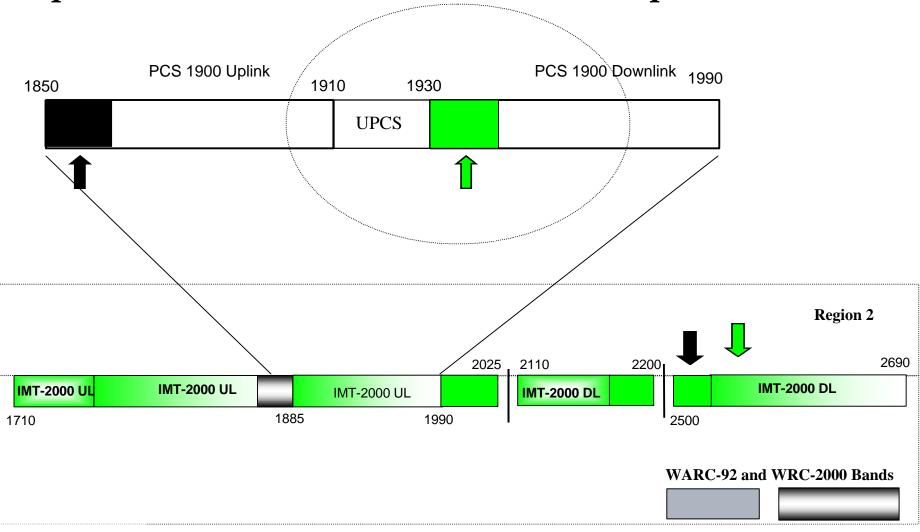


Step 4: PCS Transition to New Downlink



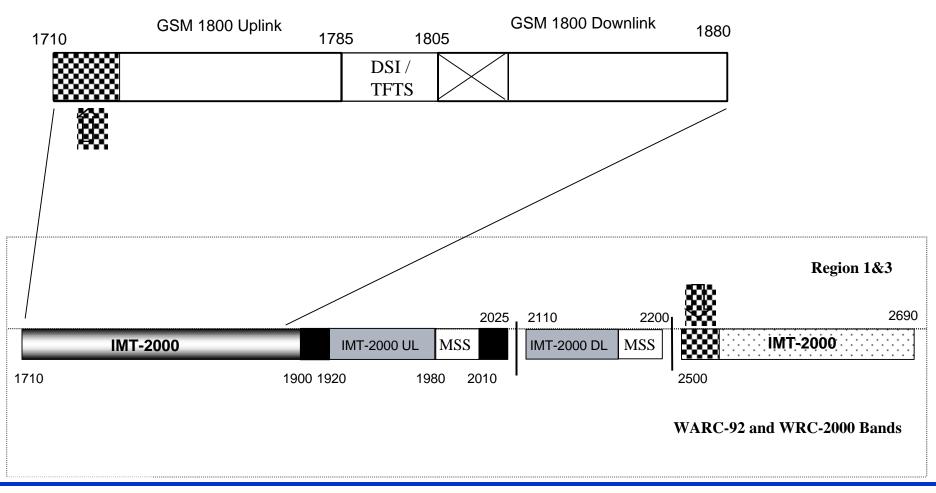


Step 4: Transition PCS Downlink to 3G Uplink



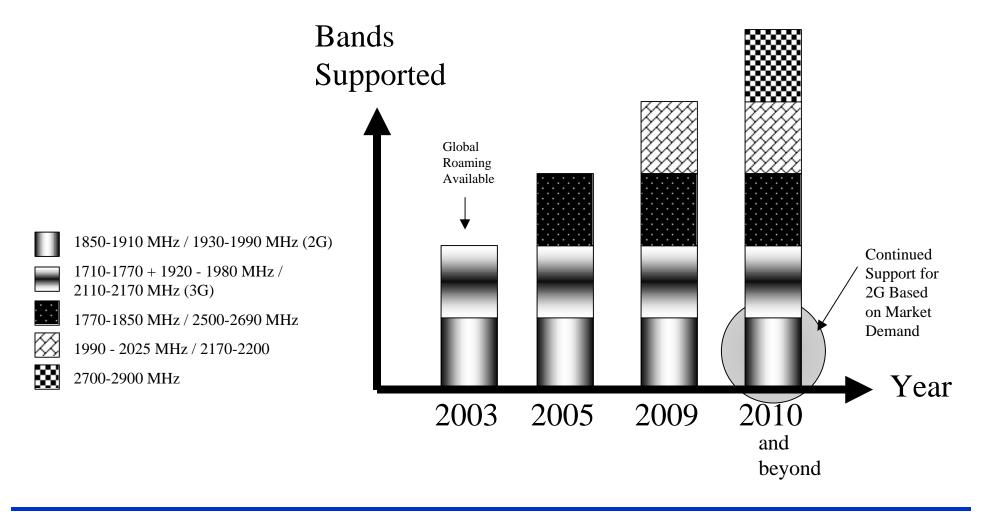


Step 4 - Reg. 1&3: GSM Transition to New Downlink





Region 2 Terminal Evolution





Where do we go from here?

- Global Roaming Plan (GRP) to be developed
- Support global approach to minimize isolation and regional fragmentation
- Make available the "Initial" phase, unencumbered, timely, and paired
- Analysis is required for subsequent phases to determine under what conditions 3G systems can share





Some key issues for international preparatory fora

- allow for <u>all</u> spectrum design proposals to be put on the table
- Harmonization between US and Europe is an opportunity that should be embraced



FCC's leadership is desired to facilitate:

- An Initial Phase pairing 1710-1770 MHz with 2110-2170 MHz
- A frequency arrangement for all three Regions a Region 2 harmonization opportunity
- A step-by-step approach consistent with US market requirements
- Implementation of Interim Report Options as proposed in the Global Roaming Plan